**RAW SEQUENCE LISTING**
PATENT APPLICATION: **US/09/893,512A**

DATE: 02/24/2003
TIME: 13:45:10

Input Set : **A:\76750001.app**
Output Set: **N:\CRF4\02242003\I893512A.raw**

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 3 <110> APPLICANT: OWMAN, CHRISTER
 5 <120> TITLE OF INVENTION: HEPTAHELIX RECEPTOR AND ITS USE AS LEUKOTRIENE B4
 6       RECEPTOR
 8 <130> FILE REFERENCE: 07675.0001-03 SEQUENCE LISTING
10 <140> CURRENT APPLICATION NUMBER: 09/893,512A
11 <141> CURRENT FILING DATE: 2001-06-29
13 <150> PRIOR APPLICATION NUMBER: 60/061,789
14 <151> PRIOR FILING DATE: 1997-10-14
16 <150> PRIOR APPLICATION NUMBER: 60/081,958
17 <151> PRIOR FILING DATE: 1998-04-15
19 <150> PRIOR APPLICATION NUMBER: 09/170,069
20 <151> PRIOR FILING DATE: 1998-10-13
22 <160> NUMBER OF SEQ ID NOS: 16
24 <170> SOFTWARE: PatentIn Ver. 2.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1672
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
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34 ggttgccctg gaaaacagac tatcccccct cctagtgaag ggagtgggta ggggtttcag 180
35 ccccaccctc aggaagatgc gtcttccctg tcctctgctc tgtggtactt cctctctggc 240
36 tgatttagca aacagcacct agacctgggc caggcctttg gcagtgggac agatccaggg 300
37 ataggctaca ccaccctgcc ctgaccctgg gattggcatc agcttccaac cagttcctgc 360
38 caaagcttgt aaggtcctcc cgacggccat gaacactaca tcttctgcag cacccccctc 420
39 actaggtgta gagttcatct ctctgctggc tatcatcctg ctgtcagtgg cgctggctgt 480
40 ggggcttccc ggcaacagct ttgtggtgtg gagtatcctg aaaaggatgc agaagcgctc 540
41 tgtcactgcc ctgatggtgc tgaacctggc cctggccgac ctggccgtat tgctcactgc 600
42 tccctttttc cttcacttcc tggcccaagg cacctggagt tttggactgg ctggttgccg 660
43 cctgtgtcac tatgtctgcg gagtcagcat gtacgccagc gtcctgctta tcacggccat 720
44 gagtctagac cgctcactgg cggtggcccg cccctttgtg tcccagaagc tacgcaccaa 780
45 ggcgatggcc cggcgggtgc tggcaggcat ctgggtgttg tcctttctgc tggccacacc 840
46 cgtcctcgcg taccgcacag tagtgccctg gaaaacgaac atgagcctgt gcttcccgcg 900
47 .gtaccccagc gaagggcacc gggccttcca tctaatcttc gaggctgtca cgggcttcct 960
48 gctgcccttc ctggctgtgg tggccagcta ctcggacata gggcgtcggc tacaggcccg 1020
49 gcgcttccgc cgcagccgcc gcaccggccg cctggtggtg ctcatcatcc tgaccttcgc 1080
50 cgccttctgg ctgccctacc acgtggtgaa cctggctgag gcgggccgcg cgctggccgg 1140
51 ccaggccgcc gggttagggc tcgtggggaa gcggctgagc ctggcccgca acgtgctcat 1200
52 cgcactcgcc ttcctgagca gcagcgtgaa ccccgtgctg tacgcgtgcg ccggcggcgg 1260
53 cctgctgcgc tcggcgggcg tgggcttcgt cgccaagctg ctggagggca cgggctccga 1320
54 ggcgtccagc acgcgccgcg ggggcagcct gggccagacc gctaggagcg gccccgccgc 1380
55 tctggagccc ggcccttccg agagcctcac tgcctccagc cctctcaagt taaacgaact 1440
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56 gaactaggcc tggtggaagg aggcgcactt tcctcctggc agaatgctag ctctgagcca 1500
57 gttcagtacc tggaggagga gcagggggcgt ggagggcgtg gagggcgtgg gagcgtggga 1560
58 ggcgggagtg gagtggaaga agagggagag gtggagcaaa gtgagggccg agtgagagcg 1620
59 tgctccagcc tggctcccac aggcagcttt aaccattaaa actgaagtct ga          1672
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 352
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 2
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71 Ile Ser Leu Leu Ala Ile Ile Leu Leu Ser Val Ala Leu Ala Val Gly
72              20                  25                  30
74 Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
75          35                  40                  45
77 Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
78       50                  55                  60
80 Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
81   65                  70                  75                  80
83 Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
84                  85                  90                  95
86 Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
87              100                 105                 110
89 Leu Asp Arg Ser Leu Ala Val Ala Arg Pro Phe Val Ser Gln Lys Leu
90          115                 120                 125
92 Arg Thr Lys Ala Met Ala Arg Arg Val Leu Ala Gly Ile Trp Val Leu
93       130                 135                 140
95 Ser Phe Leu Leu Ala Thr Pro Val Leu Ala Tyr Arg Thr Val Val Pro
96 145                 150                 155                 160
98 Trp Lys Thr Asn Met Ser Leu Cys Phe Pro Arg Tyr Pro Ser Glu Gly
99                  165                 170                 175
101 His Arg Ala Phe His Leu Ile Phe Glu Ala Val Thr Gly Phe Leu Leu
102              180                 185                 190
104 Pro Phe Leu Ala Val Val Ala Ser Tyr Ser Asp Ile Gly Arg Arg Leu
105          195                 200                 205
107 Gln Ala Arg Arg Phe Arg Arg Ser Arg Arg Thr Gly Arg Leu Val Val
108       210                 215                 220
110 Leu Ile Ile Leu Thr Phe Ala Ala Phe Trp Leu Pro Tyr His Val Val
111 225      ·          230                 235                 240
113 Asn Leu Ala Glu Ala Gly Arg Ala Leu Ala Gly Gln Ala Ala Gly Leu
114              245                 250                 255
116 Gly Leu Val Gly Lys Arg Leu Ser Leu Ala Arg Asn Val Leu Ile Ala
117              260                 265                 270
119 Leu Ala Phe Leu Ser Ser Ser Val Asn Pro Val Leu Tyr Ala Cys Ala
120          275                 280                 285
122 Gly Gly Gly Leu Leu Arg Ser Ala Gly Val Gly Phe Val Ala Lys Leu
123       290                 295                 300
125 Leu Glu Gly Thr Gly Ser Glu Ala Ser Ser Thr Arg Arg Gly Gly Ser
126 305                 310                 315                 320
```

```
128 Leu Gly Gln Thr Ala Arg Ser Gly Pro Ala Ala Leu Glu Pro Gly Pro
129             325             330         335
131 Ser Glu Ser Leu Thr Ala Ser Ser Pro Leu Lys Leu Asn Glu Leu Asn
132             340             345         350
138 <210> SEQ ID NO: 3
139 <211> LENGTH: 27
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <400> SEQUENCE: 3
144 wtcctggtsw rcctkgcwkt ggcygac                                    27
147 <210> SEQ ID NO: 4
148 <211> LENGTH: 29
149 <212> TYPE: DNA
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 4
153 akgwagwagg gcagccagca gassrygaa                                  29
156 <210> SEQ ID NO: 5
157 <211> LENGTH: 48
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 5
162 acacaggagg caaccagcca gtccaaaact ccaggtgcct tgggccag             48
165 <210> SEQ ID NO: 6
166 <211> LENGTH: 48
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 6
171 gatcggtgcc agcacccgcc gggccatcgc cttggtgcgt agcttctg             48
174 <210> SEQ ID NO: 7
175 <211> LENGTH: 8
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
179 <220> FEATURE:
180 <221> NAME/KEY: VARIANT
181 <222> LOCATION: (3)
182 <223> OTHER INFORMATION: Xaa at position 3 is any amino acid
184 <400> SEQUENCE: 7
W--> 185 Gly Asn Xaa Leu Val Val Leu Val
186   1           5
189 <210> SEQ ID NO: 8
190 <211> LENGTH: 18
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <220> FEATURE:
195 <221> NAME/KEY: VARIANT
196 <222> LOCATION: (6)
197 <223> OTHER INFORMATION: Xaa at position 6 is any amino acid
199 <220> FEATURE:
200 <221> NAME/KEY: VARIANT
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RAW SEQUENCE LISTING          DATE: 02/24/2003
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Input Set : **A:\76750001.app**
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```
201 <222> LOCATION: (7)
202 <223> OTHER INFORMATION: Xaa at position 7 is any amino acid
204 <220> FEATURE:
205 <221> NAME/KEY: VARIANT
206 <222> LOCATION: (12)
207 <223> OTHER INFORMATION: Xaa at position 12 is any amino acid
209 <220> FEATURE:
210 <221> NAME/KEY: VARIANT
211 <222> LOCATION: (13)
212 <223> OTHER INFORMATION: Xaa at position 13 is any amino acid
214 <220> FEATURE:
215 <221> NAME/KEY: VARIANT
216 <222> LOCATION: (17)
217 <223> OTHER INFORMATION: Xaa at position 17 is any amino acid
219 <400> SEQUENCE: 8
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**W--> 220 Leu Leu Asn Leu Ala Xaa Xaa Asp Leu Leu Phe Xaa Xaa Thr Leu Pro**
```
221    1              5                  10                  15
223 Xaa Trp
227 <210> SEQ ID NO: 9
228 <211> LENGTH: 350
229 <212> TYPE: PRT
230 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 9
233 Met Ser Asn Ile Thr Asp Pro Gln Met Trp Asp Phe Asp Asp Leu Asn
234    1              5                  10                  15
236 Phe Thr Gly Met Pro Pro Ala Asp Glu Asp Tyr Ser Pro Cys Met Leu
237              20                  25                  30
239 Glu Thr Glu Thr Leu Asn Lys Tyr Val Val Ile Ile Ala Tyr Ala Leu
240              35                  40                  45
242 Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
243         50                  55                  60
245 Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
246   65                  70                  75                  80
248 Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
249              85                  90                  95
251 Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
252             100                 105                 110
254 Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
255             115                 120                 125
257 Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His Ala Thr Arg
258         130                 135                 140
260 Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe Val Cys Leu Gly Cys
261 145                 150                 155                 160
263 Trp Gly Leu Ser Met Asn Leu Ser Leu Pro Phe Phe Leu Phe Arg Gln
264             165                 170                 175
266 Ala Tyr His Pro Asn Asn Ser Ser Pro Val Cys Tyr Glu Val Leu Gly
267             180                 185                 190
269 Asn Asp Thr Ala Lys Trp Arg Met Val Leu Arg Ile Leu Pro His Thr
270             195                 200                 205
```

RAW SEQUENCE LISTING                    DATE: 02/24/2003
PATENT APPLICATION:  **US/09/893,512A**      TIME: 13:45:10

Input Set : **A:\76750001.app**
Output Set: **N:\CRF4\02242003\I893512A.raw**

```
272 Phe Gly Phe Ile Val Pro Leu Phe Val Met Leu Phe Cys Tyr Gly Phe
273         210             215             220
275 Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
276 225                 230                 235                 240
278 Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu Cys Trp Leu
279                 245             250                 255
281 Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
282             260             265             270
284 Ile Gln Glu Thr Cys Glu Arg Arg Asn Asn Ile Gly Arg Ala Leu Asp
285         275             280             285
287 Ala Thr Glu Ile Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile
288         290             295             300
290 Tyr Ala Phe Ile Gly Gln Asn Phe Arg His Gly Phe Leu Lys Ile Leu
291 305             310             315             320
293 Ala Met His Gly Leu Val Ser Lys Glu Phe Leu Ala Arg His Arg Val
294             325             330             335
296 Thr Ser Tyr Thr Ser Ser Ser Val Asn Val Ser Ser Asn Leu
297         340             345             350
300 <210> SEQ ID NO: 10
301 <211> LENGTH: 355
302 <212> TYPE: PRT
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 10
306 Met Glu Ser Asp Ser Phe Glu Asp Phe Trp Lys Gly Glu Asp Leu Ser
307   1             5             10             15
309 Asn Tyr Ser Tyr Ser Ser Thr Leu Pro Pro Phe Leu Leu Asp Ala Ala
310             20             25             30
312 Pro Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile
313         35             40             45
315 Ile Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val
316     50             55             60
318 Met Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val
319  65             70             75             80
321 Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu
322             85             90             95
324 Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe
325             100             105             110
327 Leu Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly
328         115             120             125
330 Ile Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val
331     130             135             140
333 His Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile
334 145             150             155             160
336 Cys Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu
337             165             170             175
339 Leu Phe Arg Arg Thr Val Tyr Ser Ser Asn Val Ser Pro Ala Cys Tyr
340             180             185             190
342 Glu Asp Met Gly Asn Asn Thr Ala Asn Trp Arg Met Leu Leu Arg Ile
343         195             200             205
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RAW SEQUENCE LISTING ERROR SUMMARY    DATE: 02/24/2003
PATENT APPLICATION: **US/09/893,512A**    TIME: 13:45:11

Input Set : **A:\76750001.app**
Output Set: **N:\CRF4\02242003\I893512A.raw**

<u>Please Note:</u>
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:7; Xaa Pos. 3
Seq#:8; Xaa Pos. 6,7,12,13,17

**VERIFICATION SUMMARY**
PATENT APPLICATION:  **US/09/893,512A**

DATE: 02/24/2003
TIME: 13:45:11

Input Set : **A:\76750001.app**
Output Set: **N:\CRF4\02242003\I893512A.raw**

```
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
```